March 25, 1941. T. RUSSELL 2,236,383

PACKAGE OF SASH CHAINS

Filed Dec. 21, 1938

Fig.1.

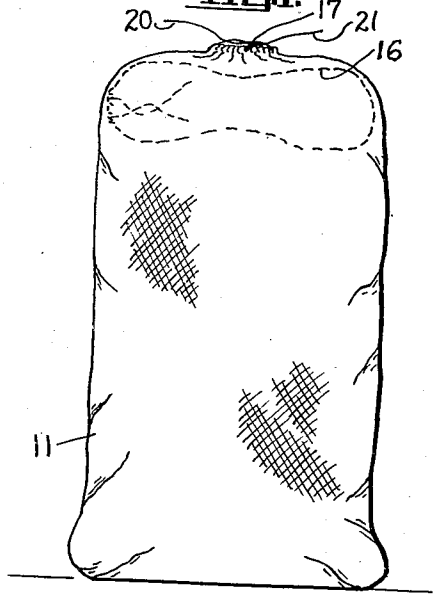


Fig.2.

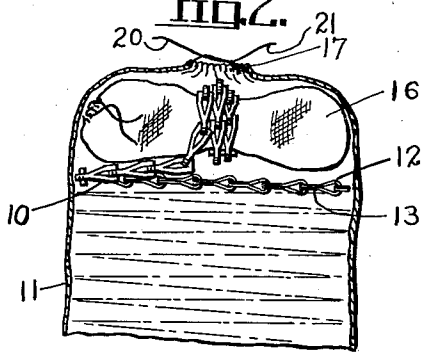


Fig.3.

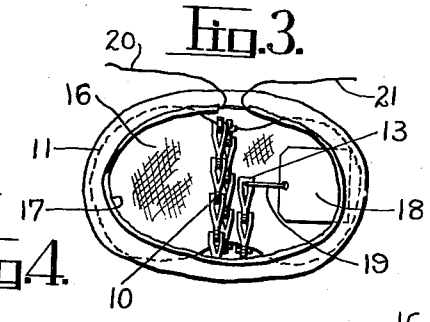


Fig.4.

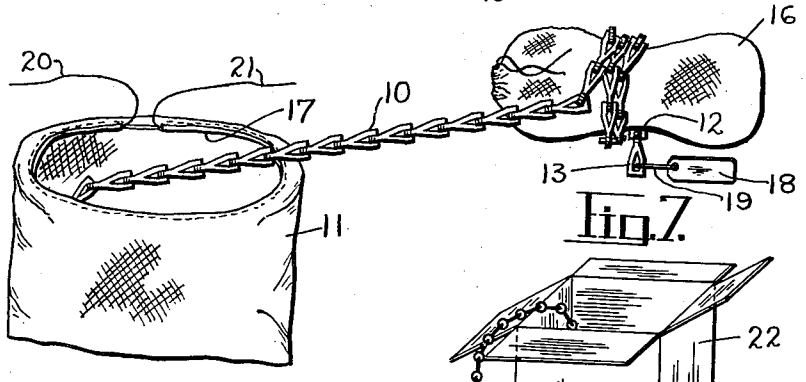


Fig.7.

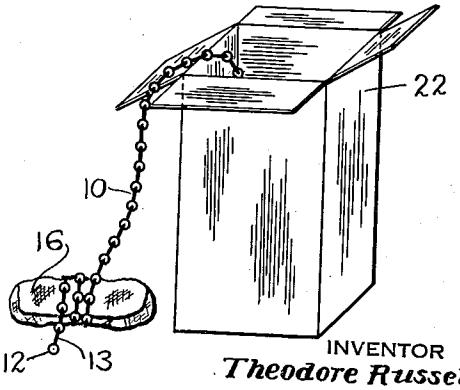


Fig.5.

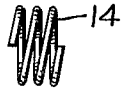
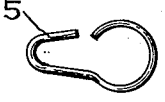


Fig.6.



INVENTOR
Theodore Russell.
BY
H. G. Manning
ATTORNEY

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PACKAGE OF SASH CHAINS

Theodore Russell, Naugatuck, Conn.

Application December 21, 1938, Serial No. 246,987

1 Claim. (Cl. 206—47)

This invention relates to sash chains, and more particularly to a method of packing a sash chain in a container, and to the package of chains resulting therefrom.

Various methods have been used in the past for packing relatively long lengths of chain, among which are the follows:

1. The chain was wound upon a flat reel which was then disposed in a container;

2. The chain was wound into the form of a hank, which was then inserted into the container; and

3. The chain was wrapped into a bunch and then disposed in a container.

Each of the three prior methods were subject to disadvantages. Thus, in No. 1, it was necessary to first remove the entire reel from the container to permit the desired length of the chain to be unwound therefrom—an operation which was time-consuming and inconvenient. In No. 2, the hank of chain had to be not only removed from the container, but straightened out, hung up, and the free end located, before the desired length of chain could be unwound from the hank—which was inconvenient and time-consuming, especially as the chain often became tangled. In No. 3, the chain usually became seriously snarled, and the free end was frequently lost in the body of the chain, causing the expenditure of considerable time to unsnarl it and find said free end.

By means of the present invention, the above and other disadvantages have been overcome and avoided.

One object of the present invention is to provide an improved method of packing a chain which will obviate removing it in its entirety from the container, unwinding it from a reel or hank, and will avoid the inconvenience of hunting for the loose end thereof.

Another object is to provide a package of chain assembled according to the improved method having means to hold the free end of the chain in such a manner that it will always be easy to find, and wherein the chain may be quickly pulled from the container by said free end.

A still further object of this invention is to provide a chain package of the above nature which will be relatively inexpensive to manufacture, simple in construction, compact, and very efficient and time-saving in operation and use.

With these and other objects in view, which will appear as the description proceeds, there have been illustrated in the accompanying drawing, two forms in which the invention may be conveniently embodied in practice.

In the drawing:

Fig. 1 illustrates in full lines a container sack in which the chain is packed, and showing in dotted lines a small interior fixture bag around which the free end of the chain is wrapped to prevent entanglement with the remainder of said chain.

Fig. 2 is a vertical sectional view of the upper part of the container sack shown in Fig. 1.

Fig. 3 is a top view of an open container.

Fig. 4 is a perspective view of an open container and illustrates the manner of removal of the fixture bag and chain therefrom.

Fig. 5 illustrates a coiled spring fixture adapted to be stored in the small bag and packed in the top of the container.

Fig. 6 illustrates a hook fixture also adapted to be received in the small bag.

Fig. 7 shows a modified form of package including a box container.

Referring now to the drawing wherein like reference numerals denote like parts throughout the several views, the numeral 10 indicates a chain, herein shown in the form of a window sash chain, and which is packed in a fabric sack or container 11 in one relatively long piece sufficient for equipping a plurality of windows, together with the necessary quantity of spring and hook fixtures or accessories by means of which the chain may be secured to the window frame and to the usual window weight, not shown.

When in use, the carpenter will cut up the long chain into the desired number of short chains as required, but before doing so, it is obvious that it will be necessary for him each time to locate the free end of the chain from which to measure the desired length to be removed.

In accordance with the present invention, the chain will be fed into the bottom of an empty container 11, the chain automatically piling up in the container 11, as indicated by dot and dash lines in Fig. 2, until all of the chain 10 is packed in the container 11, except for a short length which is left protruding from the top of the container.

In packing the chain 10 in the container 11, the looped narrow end 12 of each link is located downwardly, and the double flat wide end 13 is at the top. The fixtures or accessories to be used in installing the chain in the window frame and attaching it to the window weight, prefer-

ably comprise a plurality of short coiled springs 14 (see Fig. 5) and a plurality of open wire hooks 15 (see Fig. 6). These fixtures are placed in a small fabric bag 16.

The short length of chain which protrudes from the container is then wrapped about the small fixture bag 16, and the latter is then placed in the top of the container 11 adjacent the mouth opening 17 thereof, and on top of the mass of chain piled therein. Preferably, the fixture bag 16 is made of sufficient size to substantially cover the top of the chain 10 in the container 11 and to loosely fit in the mouth opening 17 of the container (see Fig. 3).

If desired, a tag 18 may be secured by a wire clip 19 to the looped end 12 of the topmost link of the chain to identify it as the free end of the chain, by which the desired length may be readily pulled out from the container 11. The tag 18 may be employed either with or without a fixture bag 16, but if the latter is omitted, the tag 18 should be made sufficiently large to prevent it from sinking into the chain 10 in the container and becoming hidden from view therein.

After the chain 10 and the fixture bag 16 have been packed into the container 11, as above described, the mouth opening 17 will be closed and tied by the usual draw strings 20 and 21. The package will then be ready for shipment. Upon receipt of the chain-filled container 11, the carpenter or other workman will first untie the strings 20 and 21 in the usual way, remove the fixture bag 16 with the end portion of the chain 10 wrapped thereabout, and then quickly pull out of the container the desired length of sash chain, which may then be easily cut off.

When the carpenter has completed his work, the remaining unused portion of the chain 10 may be repacked in the container 11, the free end being again wrapped about the fixture bag 16, which is then placed in the container 11 on top of the mass of chain 10 piled therein.

In the modified form of the invention shown in Fig. 7, a box container 22, such as cardboard or wood, is employed in place of the flexible fabric container 11 of the first form. The chain 10 will be packed into the container 22 in the same manner as that described for the first form, and the fixture bag 16 will likewise be placed upon the chain 10 at the top of the box 22.

While the chain 10 has been herein illustrated in Figs. 1–4 as packed in the container 11 with the narrow loop ends 12 of the links downwardly, it will be understood that it is within the scope of the invention to dispose the links in the reverse manner, as indicated in Fig. 7—with the flat ends 13 of the links extending downwardly and the loop ends 12 uppermost.

By disposing the looped narrow ends of the chain links upward, it has been found that the operation of unpacking the chain from the container will be facilitated, as this arrangement of the links offers the least resistance to an outward pulling force.

While there have been disclosed in this specification two forms in which the invention may be embodied, it is to be understood that these forms are shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosures, but may be modified and embodied in various other forms and methods without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claim.

Having thus fully described the invention, what is claimed as new and for which it is desired to secure Letters Patent, is:

A chain and chain fixture package comprising a sack having a length of chain stacked therein with one end of the chain at the bottom and the other end of the chain at the top of said sack, a bag containing chain fixtures in said sack, the top end portion of said chain being wrapped about said bag, and said wrapped bag being disposed in said sack on top of the chain stacked therein and being of sufficient size to substantially cover the top of the stack of chain in said sack to keep said chain in position therein and to render the upper free end of said chain readily available upon opening said sack.

THEODORE RUSSELL.